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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/809,939	03/25/2004		Christopher L. Hamlin	04-0175	6407	
24319	7590	01/10/2006		EXAM	EXAMINER	
LSI LOGIC CORPORATION				DOAN, NGHIA M		
1621 BARBER LANE MS: D-106				ART UNIT	PAPER NUMBER	
MILPITAS,	CA 950	35		2825		
				DATE MAILED: 01/10/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/809,939	HAMLIN, CHRISTOPHER L.				
	Office Action Summary	Examiner	Art Unit				
		Nghia M. Doan	2825				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply rill apply and will expire SIX (6) MONTHS cause the application to become ABANI	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 03/25	<u>5/2004</u> .					
• —	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims						
5)	Claim(s) <u>1-21</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-21</u> is/are rejected.						
•	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers							
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>25 March 2005</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a)⊠ accepted or b)□ object drawing(s) be held in abeyance ion is required if the drawing(s)	. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority (under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notion	nt (s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 07/19/2004.		Mail Date rmal Patent Application (PTO-152)				

DETAILED ACTION

1. Responsive to communication application 10/809,939 filed on 03/25/2004, claims 1-21 are pending.

Claim Objections

2. Claims 1, 8, and 15 are objected to because of the following informalities:

As to claims 1, 8, and 15 recite limitations that "abstracting set of transistor into abstract resources" and "sea-of-platform". These limitations are not clear defined in the application specification. It needs to clarify.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1, 6-8, 13-15 and 20-21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

As to claims 1, 8, and 15 recite the terms "flexible", and "malleable", which are not clearly defined in the specification.

As claims 6-7, 13-14, and 20-21, the limitation that "broken symmetry", which are not clearly describing in the specification.

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- 5. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 6. Claims 1, 5, 8, 12, 15, and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. The terms "flexible", and "malleable" in claims 1, 8, and 15 are relative terms, which render the claims indefinite. The terms "flexible", and "malleable" are not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

As to claims 5, 12, and 19, Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999). The term "plesiochronous" in claims 5, 12 and 10 are used by the claim to mean "synchronous with the external clock signal", while the accepted meaning is "transmit signals internally across net". The term is indefinite because the specification does not clearly redefine the term.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 9. Claims 1-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Carruthers et al. (US 6,370,677).
- 10. With respect to claims 1, 8, and 15, Carruthers discloses a method, system and computer-readable medium for optimally mapping a general set of resources to a specific integrated circuit design (Abstract), comprising steps of:

abstracting sets of transistors into abstracted resources, said abstracted resources including at least one of a transformative (translating) resource (Abstract), a coordinating resource, and a state management resource (col. 6, II. 31-53 – translating a netlist (such as logic gates, transistors or group of gates) into a configuration memory bit stream (data) used to enable an FPGA to perform the circuit design function in physical hardware --); and

utilizing a sea-of-platforms (FPGA architecture) (col. 7, II. 49-58 and col. 8, II. 35-47) for unifying a flexible and malleable collection of said abstracted resources in such a way as to optimize said abstracted resources for a specific integrated circuit design (col. 6, II. 42-48, -- used the logic resource available in

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the FPGA architecture and the routing resource to connect together the logic sources in order to create a desired circuit --).

- 11. With respect to claims 2, 9, and 16, Carruthers discloses all the limitations as the forth set of claims, wherein said transformative resource includes conversion and translation of data (col. 6, II. 35-40 and col. 12, II. 1-4).
- 12. With respect to claims 3, 10, and 17, Carruthers discloses all the limitations as the forth set of claims, wherein said coordinating resource includes timing (delay or skew) (col. 9, II. 4-29).
- 13. With respect to claims 4, 11, and 18, Carruthers discloses all the limitations as the forth set of claims, wherein said state management resource includes control of non-volatile storage structures (RAM, EEPROM or otherwise programmable device) (col. 11, II. 20-34).
- 14. With respect to claims 5, 12, and 19, Carruthers discloses all the limitations as the forth set of claims, wherein said utilizing step comprises implementing a plesiochronous signaling (transmit signals internally across net) discipline in said sea-of-platforms (col. 7, II. 49-58).
- 15. With respect to claims 6, 13, and 20, Carruthers discloses all the limitations as the forth set of claims, wherein said utilizing step comprises using broken symmetry (divided or partitioned) to optimize said abstracted resources for said specific integrated circuit design (col. 1, II. 64-67, col. 2, II. 25-35, and col. 6, II. 54-67 and col. 7, II. 1-37).

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16. With respect to claims 7, 14, and 21, Carruthers discloses all the limitations as the forth set of claims, wherein said broken symmetry is a code space (structure description of define cell) (col. 8, II. 4-11).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghia M. Doan whose telephone number is 571-272-5973. The examiner can normally be reached on 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Paul Dinh

Nghia M. Doan Patent Examiner

AU 2825 NMD